

Ion Acceleration in a Cyclotron With
Azimuthal Variation of the Magnetic
Field

78318
SOV/89-8-3-3/32

needed in conventional cyclotrons, and to obtain outside ion beams of energies up to 22-24 mev. The authors stated that they were able to obtain (using 80-kv potentials across the dees) molecular hydrogen and deuterium beams of energies up to 21 mev and approx. $1,000\mu$ a. At the maximum energy of 23.7 mev the beam current was of the order of 200μ a. The shape of the magnetic field of the 1.5 m cyclotron coincided completely with that of the scaled-down model. N. D. Fedorov, A. P. Babichev, A. S. Knyazyatov, and V. K. Anokhin took part in the magnetic field measurements; S. I. Prokof'yev helped with the covers; N. N. Khaldin gave advice and took part in constructive designs; N. I. Venikov serviced the cyclotron; I. M. Shnaptsev and A. G. Yadykin tested the vacuum; and M. A. Yegorov, V. M. Komarov, V. I. Andreyev, and V. S. Kalyayev performed the mounting of the devices. There are 14 figures; and 6 references, 2 Soviet, 4 U.S. The U.S. references are: E. Kelly, R. Pyle, L. Thornton, Rev.

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Ion Acceleration in a Cyclotron With
Azimuthal Variation of the Magnetic Field

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Scient. Instrum., 27, 493 (1958); F. Heyh, Khoe Kong Tat, Rev. Scient. Instrum., 29, 662 (1958); H. Blosser, R. Worsham, C. Goodman, R. Livingston, J. Mann, H. Moseley, G. Trammel, T. Welton, Rev. Scient. Instrum., 29, 819 (1958); L. Thomas, Phys. Rev., 54, 580 (1938).

SUBMITTED: August 6, 1959

Card 11/11

RYBIN, S.N.

31999
S/089/62/012/001/002/019
B102/3138

24.6730

AUTHORS: Arzumanov, A. A., Meshcherov, R. A., Mironov, Ye. S.,
Nemenov, L. M., Rybin, S. N., Kholmovskiy, Yu. A.TITLE: Experiments on acceleration in, and emission of ions from,
a cyclotron with azimuthally varying magnetic field and
energy regulation

PERIODICAL: Atomnaya energiya, v. 12, no. 1, 1962, 12 - 21

TEXT: Problems of formation and correction of magnetic fields used for
ion acceleration are considered. The studies and experiments described
were carried out at the 1.5-m cyclotron of the Ordena Lenina Instituta
atomnoy energii im. I. V. Kurchatova AN SSSR (Lenin Order Institute of
Atomic Energy imeni I. V. Kurchatov AS USSR). Azimuthal variation of the
magnetic field is achieved by three iron sectors. Various types of probes
were used to determine the trajectories, current and intensity distribu-
tions of accelerated ions. Their arrangement in the accelerator chamber is shown in Fig. 3. Magnetic field distribution in the central plane is
described by $H_z(R,\varphi) = H_0 [1 + f(R) + \sum_k F_k(R) \cos k\varphi]$, H_0 - magnetic field

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Experiments on acceleration...

strength in the center, $f(R) = (H_z - H_0)/H_0$ characterizes the radial field distribution averaged over φ and $F_k(R)$ is the radial distribution function of the amplitude of the k -th harmonic in a Fourier expansion of $H_z(R, \varphi)$; $H_0 = H_0[1 + f(R) + F(R)\cos 3\varphi]$, $F(R)$ - amplitude of first harmonic. The ion acceleration experiments were carried out at $H_0 = 5, 10, 13.6$, and 17 kev, deuterons and H_2^+ -ions were accelerated at $H_0 = 10, 13.6$, and 17 kev, the results are shown graphically. The deflection system is described in detail. It is designed in such a way that the effects of scattering fields are completely compensated. The main parameters of the accelerated and emitted ion beams given in Table 4, were also determined by the probe method. Results: Deuteron acceleration up to 31.5 Mev can be achieved with the current of the excited beam ~ 70 μ A. Energy was regulated in the range of 5 - 17 kev. The deflection system allows beam divergence to be reduced without additional losses of the current of accelerated ions. Small aperture magnetic quadrupole lenses can therefore be used. As the beam is small at the output and the input slit of the magnetic analyzer can be put at this point. The energy of the accelerated ions was $\pm 1\%$ spread over the whole range. The authors thank L. F. Kondrashov.

Card 2/4

31999
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3102/2138

Experiments on acceleration...

N. Z. Kubaykin and S. I. Prokof'yev for assistance. There are 14 figures, 4 tables, and 15 references; 6 Soviet and 9 non-Soviet. The four most recent references to English-language publications read as follows:
F. Heyn, Khoe-Kong Tat. Rev. Scient. Instrum., 29, 662 (1950);
J. Zavenyagin, R. Metshcherov, E. Mironov, L. Nemenov, J. Kholmovsky. Proceedings of the Intern. Conf. on High Energy Accelerators and Instrumentation - CERN, 1959, p. 225; R. Livingston, F. Howard. Nucl. Instr. and Meth., 6, 1 (1959); 6, 105 (1960); 6, 221 (1960); 6, 134 (1960);
J. Allen, S. Chatterjee, L. Ernest, A. Jarvin. Rev. Scient. Instrum., 31, 813 (1960).

SUBMITTED: May 27, 1961

Fig. 3. Position of probes in the accelerator chamber.

Legend: (1) accelerator chamber, (2) dees, (3) ion source, (4) multi-segment probe, (5) shielded probes, (6) probes for measuring the current in the emitted beam, (7) probes arranged in the dee.

Table 4. Parameters of the emitted beam.
Card 5/4

SOLOV'YEV, D., inzh.; HYBIN, V., inzh.

Eliminate shortcomings in standardization and normalization
in the merchant marine. Mor.flot. 20 no.8:31-33
Ag '60. (MIRA 13:8)

1. TSentral'noye proyektno-konstruktorskoye byuro No.1
Ministerstva morskogo flota.
(Ships—Maintenance and repair)
(Standardization)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

ZEL'BERG, G.M.; RYBIN, V.

Removal of impurities and grit from carbon black. Gaz.prom.
4 no.6:35-38 Je '59. (MIRA 12:8)
(Carbon black)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

RYBIN, V.

In the capitals of Union Republics. Za bezop. dvizh. no.6:13-14
N '58. (MIRA 11:12)

(Kiev--Traffic engineering)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

AREHIPKIN, I.; RYBIN, V.

Who is guilty? Za rul. no.6:13 Je '57. (MLRA 10:7)
(Automobiles--Maintenance and repair)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

RYBIN, V.

Line of conduct. Za rul. 21 no.3:8-9 Mr '63. (MIRA 16:4)

1. Sovkhoz "Pavlovskiy", Altayskogo kraya.

(Altai Territory—Farm mechanization)

ca

Colchicine-induced tetraploidy in flax. V. A. Rybin
Compt. rend. acad. sci. U. R. S. S. 21, 302-303 (1938); cf.
C. A. 32, 17537. --A method is described in detail for inducing tetraploidy in plants by immersing in a fresh 0.1% soln. of colchicine. Several strains of flax were tested, and the method was found to possess less risk to the plants than that of soaking the seeds in the soln. The tetraploid nature of the plants was confirmed by the increased size of the flowers and seeds, as well as by the microscopic detection of the tetraploid chromosome no. in the root tips of the resulting plants. C. K. Horner

RYBIN, V. A.

Mbr., Inst. Plant Industry, Leningrad, -1939-40-.

"Colchicine- Induced Tetraploidy in *Helianthus Annuus* L.,"

D

Dok. AN, 24, Nos. 4-5, 1939;

"Production of Tetraploid Plants in *Homo* by Means of a Colchicine Treatment,"

ibid., 24, No. 6, 1939;

"Tetraploid *Solanum Rybinii* Juz. et Buk. Produced by Colchicine Treatment, ibid.,

27, No. 2, 1940.

RYBIN, V. A.

Science

Botany, Simferopol', Krymizdat, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

1. RYBIN, V. A.
2. USSR (600)
4. Scale Insects.
7. DDT preparations for scale insect control. Sad i og. No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

RYBINA, V. A.

"The Dynamics of the Formation of Buds on Grapevines." Cand Agr Sci, Crimean Agricultural Inst, Simferopol', 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

RYBIN, V.A.

Lombardy poplar in the Crimea. Izv. Krym. otd. Geog. ob-va. no.2:75-86
'53. (Crimea--Poplar) (MIRA 8:7)

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I., [deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESSKIY, D.M.; AVRORIN, N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S.; (g. Shuya, Ivanovskoy oblasti); MATUKHIN, ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F.; VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A.; OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, A.L.; KOLESNIKOV, A.I., (g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RIBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; ILYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15:
(MLRA 9:1)
85-182 '53.

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov, Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Famfilova (for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L. Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Pol'yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sak pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prikladov); 9. TSentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskego filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya optynaya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya optynaya stantsiya dekorativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo khozyaystva RSFSR (for Vekhov); 14. Bryanskij lesokhozyaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedagogicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskem universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad (continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygankova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskoy SSR (for Rusanov, Bochantseva); 44.
Botanicheskiy sad Akademii nauk Turkmeneskoy SSR (for Blinovskiy);
45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Klyshev,
Mushegyan).

(Botanical gardens)

RYBIN, V.A., professor (Simferopol'); IL'INA, A.G., kandidat biologicheskikh nauk.

Early fruit-bearing of the English oak. Priroda 45 no.4:114-115 Ap '56.
(MLRA 9:7)

1.Krymskiy filial Akademii nauk USSR.
(Oak)

RYBIN, V.A.

CHERNOVA, Nina Mikhaylovna; RYBIN, V.A., professor, otvetstvennyy redaktor;
GRUDZINSKAYA, O.S., redaktor izdatel'stva; SIVACHENKO, Ye.K.,
tekhnicheskiy redaktor

[Wild forage grasses of the Crimea] Dikorastushchie kormovye travy
Kryma. Kiev, Izd-vo Akad.nauk USSR, 1957. 146 p. (MIRA 10:8)
(Crimea--Forage plants)

RYBIN, V.A.; PANIN, V.Ya., red.; MEDVEDEV, O.L., tekhn. red.

[Methods for the vegetative propagation of walnut] Sposoby ve-
getativnogo razmnozheniya gretskogo orekha. Kishinev, Izd-vo
"Shtiintsi" Moldavskogo filiala Akad. nauk SSSR, 1961. 28 p.
(MIRA 14:7)

(Walnut)

(Grafting)

IVANOV, S.M.; RYBIN, V.A., prof., red.; PANIN, V.Ya., red.

[Causes of the desiccation of stone fruit trees] Prichiny
usykhaniia derev'ev kostochkovykh plodovykh porod. Kishi-
nev, Shtintsa, 1961. 224 p. (MIRA 18:5)

RYBIN, V.A.; IL'INA, A.G.

Reversible (unstable) sport in pears. Biul. Glav. bot.
sada no.40:57-63 '61. (MIRA 14:10)

1. Moldavskiy filial AN SSSR, Kishinev.
(Botany--Variation)
(Pear)

RYBIN, Vladimir Alekseyevich, prof.; DRYAKHLOVA, V.I., red.

[Use of the cytological method in breeding work with
fruit crops] Primenenie tsitologicheskogo metoda pri
seleksionnoi rabote s plodovymi. Kishinev,
"Shtiintsa," 1962. 166 p. (MIRA 17:11)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

RYBIN, V.A.

Natural hybridization between the cherry plum and apricot in the
Botanical Garden of the Academy of Sciences of the Moldavian
S.S.R. Izv. AN Mold. SSR no.12:18-31 '62. (MIRA 18:4)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

RYBIN, V. A.

"Frostresistenter amphidiploider Bastard Prunus spinosa P. ussuriensis und
seine mogliche Verwertung in der Obstzuchtung."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

Botanischer Garten vor Naturwissenschaftlichen Akademie Moldavien SSR.

RYBIN, V., inzh.

Standardization and normalization in the Far-Eastern basin. Mor.
flot 22 no.10:36-37 0 '62. (MIRA 15:10)

(Soviet Far East—Merchant marine)
(Marine engineering—Standards)

KOVARSKIY, A.Ye., prof., doktor sel'khoz. nauk, zasl. deyatel' nauki i tekhniki, otv. red.; YAROSHENKO, M.F., doktor biol. nauk, zam. otv. red.; VERDEREVSKIY, D.D., doktor sel'khoz. nauk, red.; IRIKHIMOVICH, A.I., doktor biol. nauk, red.; KOLESNIKOV, S.M., kand. biol. nauk, red.; PRINTS, Ya.I., doktor biol. nauk, red.; RYBIN, V.A., doktor biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; GULIAYEVA, Ye.M., kand. biol. nauk, ovt. red.; KARYAKINA, I.I., red.; MANDEL'BAUM, M.Ye., tekhn. red.

[Transactions of the Darwin Anniversary Conference] Trudy iubileinoi Darvinovskoi konferentsii. Kishinev, Izd-vo "Shtiintsa," 1960. 389 p. (MIRA 15:9)

1. Yubileynaya Darvinovskaya konferentsiya, 1960. 2. Institut biologii Moldavskogo filiala Akademii nauk SSSR i Kishinevskiy sel'skokhozyaystvennyy institut im. M.V.Frunze (for Kovarskiy). 3. Kishinevskiy sel'skokhozyaystvennyy institut im. M.V.Frunze (for Verderevskiy). 4. Institut biologii Moldavskogo filiala Akademii nauk SSSR (for Kolesnikov, Prints, Uspenskiy, Irikhimovich). 5. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Rybin).
(Evolution--Congresses)

RYBIN, V.D., Inzh.

Plane stressed state of a rectangular plate loaded inside the
contour of a concentrated force. Trudy MIIT no.174:166-178
'63. (MIRA 18:1)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

ALEKSANDROV, A.V., dotsent; RYBIN, V.D., inzh.

Determining the forces in suspension supports of spans of the "arch with tie-beam" type. Trudy MIICh no.187;63-88 '64. (MIRA 18:7)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

RYBIN, V.D., inzh.

Analyzing local stresses in prestressed reinforced concrete
girders. Bet. i zhel.-bet. no. 9:426-430 S'60. (MIRA 13:9)
(Strains and stresses) (Girders)

YEVGRAFOV, Georgiy Konstantinovich, prof., doktor tekhn.nauk; IOSILEVSKIY, Lev Izrailevich, kand.tekhn.nauk, dotsent; ALEXANDROV, Anatoliy Vasil'yevich, kand.tekhn.nauk, dotsent; BOGDANOV, Nikolay Nikolayevich, kand.tekhn.nauk, dotsent; YEREMEYEV, Genrikh Mikhaylovich, inzh.; CHIRKOV, Vladilen Pavlovich, inzh. Prinimalni uchastiye: RYBIN, V.D., inzh.; ANTIPOV, A.S., inzh. MITROFANOV, Yu.M., inzh., retsent; KARAMYSHEV, I.A., inzh., red.; USENKO, L.A., tekhn.red.

[Prestressed bridge girders with stretching of the reinforcement before the concrete is placed] Predvaritel'no napriazhennye balochnye proletnye stroenii mostov s napriazheniem armatury do betonirovaniia. Moskva, Vses.izdatel'sko-poligr.obedinenie M-va putei soobshcheniya, 1962. 282 p. (MIRA 15:4)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Yevgrafov).
(Bridges, Concrete) (Prestressed concrete)

RYBIN, V.F.

Ground beetle Zabrus tenebrioides in Odessa Province. Zashch.
rast.ot vred. i bol. 4 no.1:32 Ja-F '59. (MIRA 12:2)

1. Glavnnyy agronom po zashchite rasteniy oblast'khозуправлениya,
Odesskaya oblast.

(Odessa Province--Ground beetles)

RYBIN, Valeriy Ivanovich; BOROZDIN, B., red.; LEBEDEV, A., tekhn.
red.

[The differential system of credit and payments] Differentsi-
rovannyi rezhim kreditovaniia i raschetov. Moskva, Gosfin-
izdat, 1962. 90 p. (MIRA 15:7)
(Credit) (Payment)

L 15807-66 EWT(1) GW

ACC NR: AT5028740

SOURCE CODE: UR/3175/65/000/023/0176/0179

AUTHOR: Malyarevskiy, K. V.; Rybin, V. K.

ORG: none

46
B+1

TITLE: Use of the infinite line method for measuring the amplitude of an electromagnetic field

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Osoboye konstruktorskoye byuro. Geofizicheskaya apparatura, no. 23, 1965, 176-179

TOPIC TAGS: electromagnetic field, interference reduction, electronic measurement

ABSTRACT: The author discusses filtering and mutual correlation as means for reducing interference when measuring the amplitude of an electromagnetic field by the infinite line method. The units used for filtering are the LC-tank in the pickup and a tuned voltage amplifier with a double bridged T-network in the negative feedback circuit. A phase sensitive element is used for correlation detection of the module for the signal being measured. The resistance of the correlational device to interference is in direct relationship to the dynamic qualities of the system.

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ACC NR: AT5028740

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It is shown that the correlational system is impractical in cases where the measuring equipment is blocked off by the terrain from the transmitter since the level of the reference signal falls below that of interference. In these cases, the selective channel system for measuring amplitude is still quite effective in suppression of interference since the interference level at the channel input usually does not exceed 2 μ v and may be reduced to 0.5 μ v under favorable weather conditions. A filter system with a linear detector at the output has the additional advantage of a smaller number of elements. The superiority of the direct registration method over the reference signal method is clearly illustrated by comparison of recordings made using both methods. Two years of operational tests with equipment using the direct measurement method have shown that it is preferable to the mutual correlation system. Orig. art. has: 4 figures.

SUB CODE: 09/ SUBM DATE: 00/ ORIG REF: 002 OTH REF: 000

Card 2/2 SYN

MALYAREVSKIY, K.V.; RYBIN, V.K.

Preamplifier for the measurement of variable electromagnetic fields
in the audiolfrequency range. Geofiz. prib. no.20:94-96 '64.
(MIRA 18:9)

1. Zapadnyy geofizicheskiy trest.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

MALYAREVSKIY, K.V.; RYBIN, V.K.; SAVEL'IEV, N.N.

Device for ground electric prospecting using alternating current.
(MIRA 18:9)
Geofiz. prib. no.20:104-114 '64.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

L 31975-66 EWT(1)T IJP(1)
ACC NR: AP6010865

SOURCE CODE: UR/0115/66/000/002/0013/0017

AUTHOR: Armen'skiy, Ye. V.; Rybin, V. M.

ORG: none

TITLE: Measuring the current of a pulsed beam of charged particles

SOURCE: Izmeritel'naya tekhnika, no. 2, 1966, 13-17

TOPIC TAGS: particle accelerator, particle beam, CHARGED PARTICLE,
MEASUREMENT

ABSTRACT: Based on 1960-65 Soviet and 1948-63 Western sources, this brief review covers the following points: All measuring transducers of a charged-particle pulsed beam can be divided into three groups: (1) opaque that stop the beam and use its energy for measurement; (2) semitransparent that use only a part of the beam for measuring purposes; (3) transparent that do not use the beam energy (contact and contactless types); Faraday's cylinder, its operation, and steps for reducing errors; secondary-emission monitors; signal-electrode transducers; a magnetic belt for cyclotron measurements; other devices mentioned. Orig. art. has: 5 figures and 3 formulas.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 008 / OTH REF: 011

UDC: 539.108:539.121.8

Card 1/1 LC

RYBIN·V.·M.

95

S/089/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fizicheskogo
instituta (Scientific Conference of the Moscow Engineering
Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400
delegates participating. A review is given of these lectures that are
assumed to be of interest for the readers of Atomnaya energiya. They are
following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev,
design of accelerators for superhigh energies; I. Ya. Pomeranchuk,
analyticity, unitarity, and asymptotic behavior of strong interactions at
high energies; A. B. Migdal, phenomenological theory for the many-body
problem; Yu. D. Fiveyskiy, deceleration of medium-energy antiprotons in
matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect;
M. I. Ryazanov, theory of ionisation losses in nonhomogeneous medium;
Yu. B. Ivanov, A. A. Buktadze, h-f conductivity of subcritical plasma;

Card 1/4

Nauchnaya konferentsiya...

S/089/62/013/006/019/027
B102/B186

35

design of 30-Mev electron linear accelerator; Ye. G. Pyatnov, A. A. Glaskov, characteristics of low-energy electron linear accelerators; G. A. Zaytlenk, V. M. Levin, S. I. Piskunov, V. L. Smirnov, V. K. Khokhlov, radiocircuit parameters of JN3 (LUE)-type accelerators; O. A. Tyagunov, O. A. Val'dner, B. M. Okhberg, S. I. Korshunov, V. I. Kotov, Ye. M. Moroz, accelerator classification and terminology; O. S. Milovanov, V. B. Varaksin, P. B. Zenkevich, theoretical analysis of magnetron operation; A. G. Tragov, P. R. Zenkevich, calculation of attenuation in a diaphragmated waveguide; Yu. P. Lazarenko, A. V. Ryabtsev, optimum attenuation length for linear accelerator; A. A. Zhigarev, R. Ye. Yeliseyev, review on trajectographs; I. G. Morosova, G. A. Tyagunov, review on more than 500 ion sources; M. A. Abroyan, V. L. Komarov, duoplasmatron-type source; V. S. Kuznetsov, A. I. Solnyshkov, calculation and production of intense ion beams; V. M. Rybin (Ye. V. Armentskiy), inductive current transmitters of high sensitivity; V. I. Korosa, G. A. Tyagunov, kinetic description of linear acceleration of relativistic electrons; A. D. Vlasov, phase oscillations in linear accelerators; E. L. Burshteyn, G. V. Voskresenskiy, beam field effects in the waveguide of an electron linear accelerator; R. S. Bobovikov,

Card 3/4

16.3500

30855

S/044/61/000/008/033/039
C111/C333AUTHOR: Rybin, V. M.TITLE: Application of the method of approximative integration of
S. A. Chaplygin, Academician, to a certain class of partial
differential equations of first orderPERIODICAL: Referativnyy zhurnal, Matematika, no. 8, 1961, 34,
abstract 8V222. ("Uch. zap. Ryazansk. gos. ped. in-t",
1960, 24, 147-162)

TEXT: The equation

$$A(p,q) x + B(p,q) y + z + D(p,q) = 0$$

with Cauchy initial conditions is reduced to the equations

$$d\alpha/du = \varphi(u, \alpha) \text{ and } d\beta/du = \psi(u, \alpha, \beta)$$

by introduction of new variables. The approximative solution of these
equations is constructed according to the method of Chaplygin. In the
result one obtains a sequence $\{z_i(x,y)\}$ which converges monotonely to
the solution of the equation. The velocity of convergence of this

Card 1/2

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

ARMENSKIY, Ye.V.; ZHIRKOV, V.F.; RYBIN, V.M.

Transistorized pulse amplitude meter. Izm. tekhn. no.12:35-36
D '64. (MIRA 18:4)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

L 34883-65 EWT(1)/EWA(h) Feb
ACCESSION NR: AP5004610

S/0115/64/000/012/0035/0036

AUTHOR: Armeneskiy, Ye. V.; Zhirkov, V. F.; Rybin, V. M.

TITLE: Semiconductor pulse-height meter

SOURCE: Izmeritel'naya tekhnika, no. 12, 1964, 35-36

TOPIC TAGS: pulse height meter

ABSTRACT: A transistorized pulse-height meter is based on a relay-type servo with the blocking oscillator acting as a balance detector. Its principal circuit is described. A 5-volt-scale laboratory model had an absolute error of about 4 mv at a pulse repetition frequency of 50 cps or higher and a pulse duration of over 0.1×10^{-6} sec; maximum relative error, 0.08%. The possibility of measuring the height of pulses of n-times higher or lower repetition frequency is mentioned.
Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC, IE

NO REF SOV: 000

OTHER: 000

Card 1/1

ISKANDEROV, Khakim Mukhamedzyanovich; RYBIN, Viktor Nikolayevich;
MOSHAROVA, T.P., red.; LAVRENOVA, N.B., tekhn. red.

[Standardization and normalization in the merchant marine]
Standartizatsiia i normalizatsiia na morskem flote. Moskva,
Izd-vo "Morskoi transport," 1962. 74 p. (MIRA 15:7)
(Merchant marine--Standards)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

ARMENSKIY, Ye.V.; BORODULIN, A.I.; RYBIN, V.M.; SMIRNOV, V.N.

Measuring the average energy of electrons of a low-energy
linear accelerator. Izm. tekhn. no.11:44-45 N '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

L 16177-66 EWT(1)/EWA(h)

ACC NR: AP6001594

SOURCE CODE: UR/0120/65/000/006/0200/0201

AUTHOR: Andreyev, V. N.; Armenskiy, Ye. V.; Rybin, V. M.

ORG: Moscow Engineering Physics Institute, (Moskovskiy inzhenerno-fizicheskiy institut)

TITLE: Magnetron frequency stabilization system

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 200-201

TOPIC TAGS: magnetron, frequency stability

ABSTRACT: A system for stabilizing the frequency of a magnetron utilized as an hf power oscillator in linear electron accelerators (3-10 Mev) is described. The basic element of the system is a discriminator in the form of a standard cavity resonator whose resonant frequency is periodically retuned. At an operating frequency of 3 Gc, frequency stabilization with an accuracy of 0.15—0.2 Mc is possible. Experiments have demonstrated the relative accuracy of the stabilization system to be 5×10^{-5} . The system can also be used for the automatic retuning of magnetron frequency in the 5—8-Mc range by shifting the adjusting rod of the resonator. Orig. art. has: 1 figure. [DW]

Card 1/2

UDC: 621.3.072.6:621.385.64

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

L 16177-66

ACC NR: AP6001594

SUB CODE: 09 / SUBM DATE: 05Oct64 / ATD PRESS: *copy*

Card 2/2 *of*

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

L 8372-65 EWT(1)/EEC(b)-2/EWA(h) ASD(d)/AEDG(a)/AFWL/AFETR/ASD(a)-5/AI:MDC/
ESD(dp)/RAEM(t)
ACCESSION NR: AR1044029 S/0058/63/000/011/A031/A031

SOURCE: Ref. zh. Fizika, Abs. 11A311

AUTHOR: Ryabin, V. N., Kuznetsov, V. S., Matrosov, M. I.

TITLE: A device for automatic control and shielding of thyatron rectifiers

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektronike,
1961. M., Gosatomizdat, 1962, 98-104

TOPIC TAGS: rectifier, thyatron rectifier, trigger pulse, shielding, automatic
control

TRANSLATION: There is developed a power system working on any inductive, capacitive, or resistive load in constant, single, and pulse regimes. The storage system is charged by a current which has constant magnitude, at an efficiency close to 100%. There are given the block-diagram of the system and the schematic diagram of the control unit for the rectifier which is built on a three-phase bridge circuit using thyatrons. Control is based on the principle of the regulation of position and

Card | 1/2

L 8372-65

ACCESSION NR: AR4044029

speed of shifting of the trigger pulses of the three thyratrons. Control of the rectification voltage from 0 to 10 kv is done by a 130° phase change of the trigger pulses. With changing load, the thyratron firing angle is changed such that the value of the average current remains constant. The working voltage is regulated within the range from 0 to 12 kv with an output voltage holding accuracy no worse than 0.08%. The rectifier gives a maximum load power of 200 kva.

SUB CODE: EC, DP

ENCL: 00

Card 2/2

L 8374-65 EWT(1)/EWA(h) ESD(c)
ACCESSION NR: AR4044026

S/0058/63/000/011/A030/A030

SOURCE: Ref. zh. Fizika, Abs. 11A305

AUTHOR: Ryabin, V. N.; Abas-Ogly*, Ya. R.; Zelenin, V. Ye.

TITLE: Methods of shaping rectangular pulse voltages of great duration and power

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektronike, 1961. M., Gosatomizdat, 1962, 219-226

TOPIC TAGS: pulse shaping, pulse voltage, nonlinear pulse transformer

TRANSLATION: There is described a method of pulse shaping using a nonlinear pulse transformer, which makes it possible to obtain pulses of 10Mw power at a voltage of 25 kv. The duration of the flat part is 1.5 msec for a build-up time of 4 microseconds. A steep leading edge with great duration of the flat part is assured by use of a transformer in the form of a coaxial cable. The core and braiding of the cable in this transformer form different windings. There are given the basic calculation relationships for the shaping system. There are described two versions

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L 8374-65

ACCESSION NR: AR4044026

of the circuit for a generator giving a pulse voltage of 10 or 30 kw with powers of 12 Mw making it possible to change the pulse duration from 150 to 500 microseconds or from 100 to 1000 microseconds. The generator circuit has partial discharge of the capacitor battery on the load through thyratrons whose quenching moment is controlled by a pulse that triggers the quenching thyratron. During operation of the quenching thyratron, a negative pulse is applied to the anodes of the basic thyratrons; as a result, the current through them ceases. The pulse repetition rate from the generator is determined by the power of the high-voltage rectifier.

SUB CODE: EC

ENCL: 00

2/2
+ Card

LETUNOV, V.S.; RYBIN, V.N.

Improve standardization procedures in merchant marine.
Standartizatsiia 25 no.11:47 N '61. (MIRA 14:11)
(Merchant marine—Standardization)

RYBIN, V.N.

Standardization in the merchant marine. Standartizatsiia 24
no.8:53-54 Ag '60. (MIR 13:9)
(Merchant marine--Standards)

SAMOKHOTSKIY, Aleksey Ivanovich; KUNYAVSKIY, Mikhail Naumovich [deceased];
RYBIN, V.V., inzh., red.; MALYSHEV, A.I., inzh., retsenzent;
RZHAVINSKIY, V.V., inzh., red.; MOIEL', B.I., tekhn.red.

[Laboratory research on metals] Laboratornye raboty po metallo-
vedeniiu. Pod red. V.V.Rybina. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostr.lit-ry, 1959. 275 p. (MIRA 12:10)
(Metals--Testing) (Metallography)

KYBIN, V. V.

KUNYAVSKIY, M.N.; SAMOKHOTSKIY, A.I.; ASSONOV, A.D., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii, retsenzent; KYBIN, V.V., inzhener, redaktor; KOLLI, A.Ya., redaktor; MATVEYEVA, YE.N., tekhnicheskiy redaktor.

[Principles of metallography and heat treatment] Osnovy metallovedeniia i termicheskoi obrabotki. Moskva, Gos.neuchno-tehn. izd-vo mashinostroitel'noi lit-ry, 1955. 371 p. (MLRA 8:12)
(Metals--Heat treatment) (Metallography)

NIKIFOROV, Vikentiy Markianovich; RYBIN, V.V., inzh., retsenzent;
LEYKIN, A.Ye., inzh., retsenzent; SOKOLOV, A.N., dots.,
kand. tekhn. nauk, red.; DENINA, I.A., red.izd-va;
SHCHETININA, L.V., tekhn. red.

[Brief course on the technology of metals] Kratkii kurs
tekhnologii metallov. Izd.4., perer. i dop. Moskva, Mash-
giz, 1963. 368 p. (MIRA 16:10)
(Metallurgy) (Metalwork)

NIKIFOROV, Vikentiy Markianovich; RYBIN, V.V., inzh., retsenzent;
LLEYKIN, A.Ye., inzh., retsenzent; SOMOLOV, A.N., dotsent, kand.
tekhn.nauk, red.; BORODULINA, I.A., red.izd-va; SHCHETININA,
L.V., tekhn.red.

[Brief course on the technology of metals] Kratkii kurs tekhnologii metallov. Izd.4., perer. i dop. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 368 p. (MIRA 13:12)
(Metals) (Metalwork)

VESELOVSKIY, Yu. P.; GRASSE, B. I.; RYBIN, V. V., inzh., retsenzent;
MURAV'YEV, V. A., inzh., retsenzent; LESNICHENKO, I. I., red.
izd-va; DEMKINA, N. F., tekhn. red.

[Laboratory manual for a course on the "Technology of metals
and structural materials."] Laboratornyi praktikum po kursu
"Tekhnologiya metallov i konstruktionskiye materialy." Moskva,
Mashgiz, 1962. 150 p. (MIRA 16:3)
(Metallography) (Structural materials--Testing)
(Metallurgical laboratories--Equipment and supplies)

BRYUKHANOV, Andrey Nikolayevich; LAKHTIN, Yuriy Mikhaylovich; MALYSHEV,
Anatoliy Ivanovich; NIKOLAYEV, Grigoriy Nikolayevich; SHUVALOV,
Yuliy Avraamovich; RYBIN, V.V., inzh., retsenzent; GLIKIN, N.M.,
kand. tekhn. nauk, red.; RZHAVINSKIY, V.V., red. izd-va; MODEL',
B.I., tekhn. red.

[Technology of metals] Tekhnologija metallov. Izd.2., perer. i dop.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1959.
599 p.

(Metallurgy)

A. M. T. N. D.

ZAKHAROV, Boris Petrovich; BOGACHEV, I.N., prof. doktor tekhn.nauk, retsenzent;
RYBIN, V.V., inzh., retsenzent; KARPEYEV, I.Ye., inzh., retsenzent;
DUGINA, N.A., tekhn.red.

[Heat treatment of metals] Termicheskaja obrabotka metallov. Moskva,
Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 302 p.
(Metals--Heat treatment) (MIRA 11:2)

NIKIFOROV, Vikentiy Markianovich; RYBIN, V.V., inzhener, retsentent;
SOKOLOV, A.N., kandidat tekhnicheskikh nauk, redaktor; AZAROV, A.S.,
kandidat tekhnicheskikh nauk, redaktor; LEYKINA, T.L., redaktor
izdatel'stva; POL'SKAYA, R.G., tekhnicheskiy redaktor

[Short course in the technology of metals] Kratkii kurs tekhnologii
metallov. Izd. 2-oe, perer. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1956. 342 p. (MLRA 9:10)
(Metals)

RYBIN, Ye.G.

Our experience. Zdrav.Ros.Feder. 4 no.11:7-8 '60. (MIR4 13:11)

1. Zamestritel' predsedatelya Krasnoarmeyskogo rayispolkoma
Krasnodarskogo kraya.
(HOSPITALS, RURAL)

RYBIN, Zdenek, PROCHAZKA, Josef

Ossification of the patellar ligament. Acta chir. orthop. trauma.
Cech. 28 no.4:375-379 Ag '61.

1. II. ortopedicka klinika v Praze, prednosta prof. dr. Hnevovsky.
(LIGAMENTS diseases) (OSSIFICATION in inf. & child.)

JANEG, Jan; RYBIN, Zdenek

Our experience with surgical treatment of spastic conditions.
Acta chir.orthop.traum.cech. 28 no.3:227-231 Je '61.

1. Klinika pro ortopedickou a detskou chirurgii v Praze, predn.
prof. dr. O Hnevovsky.

(PARALYSIS SPASTIC surgery)

VORLOVA, Z.; RYBIN, Z.

Osteolysis of the proximal end of the humerus in a patient with
hemophilia B. Acta chir. orthop. trauma. Cech. 28 no.4:370-374
Ag '61.

1. II ortopedicka klinika v Praze, prednosta prof. dr Hnevkovsky --
Klinicke oddeleni ustavu hematologie i krevni transfuze v Praze,
prednosta prof. dr J. Horejsi.
(HEMOPHILIA compl.) (HUMERUS diseases)

RYBINA,--

N.A. SUVOROVSKAYA, Byull. Obmen Opyt. Lakokrasochnoi Prom.
1939, No. 6-7, 28.

CHAGOVETS, R.V., otv.red.; VENDT, V.P., red.; LAKHNO, Ye.V., red.;
RYBINA, A.A., red.; GRUDZINSKAYA, O.S., red.izd-va; YURCHISHIN,
V.I., tekhn.red.

[Vitamins] Vitaminy. Kiev. Vol.4. [Problems in the biochemistry
and physiology of vitamins] Voprosy biokhimii i fiziologii vita-
minov. 1959. 234 p. (MIR 13:10)

1. Akademiya nauk USSR, Kiyev. Institut biokhimii. 2. Institut
biokhimii Akademii nauk USSR, Kiyev. (for Vendt, Lakhno, Rybina).
(VITAMINS)

CHACOVICH, R. V., LAKHNO, E. V., RYBINA, A. A. and SHUTMAN, Ts. M.

"Effect of a Load of Vitamins B, C and Nicotinic Acid on their Content in the Tissues and Certain Aspects of Metabolism.

Report submitted for the 5th Intl. Congress of Biochemistry, Moscow, 10-16 Aug 1961.

Inst. of Biochemistry, Acad. Sci. Ukr SSR, Kiev,

SYBINA, A.A. [Sibina, A.O.]

Effect of 2,4-dinitrophenol on the introduction of thiamine in
the rabbit liver and its conversion. Ukr. biokhim. zhur. 34,
no. 1847-55 '62. (MERA 17:5)

1. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiev.

RYBINA, A.A.

Chromatographic study of thiamine and its phosphoric esters in
tissues. Vitaminy no.4:10-14 '59. (MIRA 12:9)

1. Institut biokhimii Akademii nauk USSR, Kiyev.
(THIAMINE) (CHROMATOGRAPHIC ANALYSIS)

LAKHNO, Yu.V.; RYBINA, A.A. [Rybina, A.O.]

Nature of changes in dehydrase activity and thiamine metabolism
during the recovery of animals from a state of hypothermia. Ukr.
biokhim.zhur. 31 no.3:393-404 '59. (MIRA 12:9)

1. Institute of Biochemistry of the Academy of Sciences of
the U.S.S.R., Kiyev.
(DEHYDROGENASE) (THIAMINE) (HYPOTHERMIA)

CHAGOVETS, R.V.; LAKHNO, Ye.V.; RYBINA, A.A.

Absorption of oxygen and activity of rabbits' brain and muscle tissue dehydrases when subjected to sodium evipan, aminazin, and during cooling. Farm. i toks. 21 no.1:50-53 Ja-F '58. (MIRA 11:4)

1. Institut biokhimii AN USSR.

- (BARBITURATES, effects, hexobarbital
on metab. of rabbit brain & musc. tissue in vitro (Rus))
- (CHLORPROMAZINE, effects
on metab. of rabbit brain & musc. tissue in vitro (Rus))
- (BRAIN, metabolism, oxygen consumption & dehydrase
activity in vitro, eff. of hexobarbital, chlorpromazine &
cooling (Rus))
- (MUSCLES, metabolism, same)
- (COLD, effects
cooling on oxygen consumption & dehydrase activity of rabbit
brain & musc. (Rus))

Rybina, A.A.
RYBINA, A.A.

Fourth All-Union Conference on Vitamins. Ukr.biokhim.zhur. 29
no.4:494-499 '57. (MIRA 11:1)
(MOSCOW--VITAMINS--CONGRESSES)

Р4БМ/1.14
CHAGOVETS, R.V., otvetstvennyy red.; VENDT, V.P., red.; LAKHNO, Ye.V., red.;
RYBINA, A.A., red.; SNEZHIN, M.I., red, izd-va; MATVEYCHUK, A.A.,
tekhn.red.

[Vitamins] Vitaminy. Kiev. Vol.3. [Chemistry of vitamins; physiology
and biochemistry of vitamins] Khimiia vitaminov; fiziologija i bio-
khimiia vitaminov. 1958. 210 p. (MIRA 11:3)

1. Akademija nauk URSR, Kiyev. Instytut biokhimii. 2. Chlen-
korrespondent AN USSR (for Chagovets)
(VITAMINS)

KUZNETSOVA, L.N.; IAKHNO, Ye.V.; OSTRUOKHOVA, V.A.; RYBINA, A.A.;
CHAGOVETS, R.V.

Effect of reducing the temperature of the organism on the metabolism
of pyridine and thiamine compounds. Vitaminy no.2:86-97 '56.
(MIRA 10:8)

1. Institut biokhimii Akademii nauk USSR, Kiev
(COLD--PHYSIOLOGICAL EFFECT) (PYRIDINE) (THIAMINE)

RYBINA, A.A.

LAKHNO, Ye.V.; RYBINA, A.A.; CHAGOVETS, R.V.; MPSHTEYN, I.B.

Metabolism of pyridine nucleotides, riboflavin, and thiamine in evipan-sodium anesthesia. Vitaminy no.2:98-106 '56. (MLRA 10:8)

1. Institut biokhimii Akademii nauk USSR, Kiyev
(ANESTHESIA) (NUCLEOTIDES) (RIBOFLAVIN) (THIAMINE)

RYBINA, A. A.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Biological Chemistry

(3)
The esterase of phosphopyruvic acid in cephalic marrow. E. B. Skvirskaia and A. A. Rybina (Inst. Biochem., Acad. Sci. Ukr. R.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 21, 141-8 (in Russian, 148-9) (1949).—The presence of this enzyme was proved both for marrow homogenates and aq. exts. 1:20. The optimum pH was 7.2-7.3. This homogenate or ext. was allowed to act on a substrate of phosphoglyceric or phosphopyruvic acid, adenylic acid (I) and $MgCl_2$ (II). I can be replaced by adenosinephosphate. The presence of II is necessary for the activity; if Mg is replaced by K and Na or left out without any replacement, there is a sharp drop in activity; In the presence of sufficient II an addn. of NaCl is ineffective; KC₁ will raise the activity, and CaCl₂ will lower it. Also if the Na⁺ always present in the reaction mixt. (from the buffer etc.) is replaced by K⁺, another increase in activity is noted. The replacement of I by inosinic acid results in almost complete loss of activity. Oxidants like H₂O₂ and alloxan retard the reaction; the same is true for phlorizin (III). This latter observation is significant because it disproves the prevalent opinion that III can inhibit hexokinases only. Werner Jacobson

RYBINA, A.A.

Chemical Abst.
Vol. 48 No. 3
Feb. 10, 1954
Biological Chemistry

2
Changes in metabolism in the brain upon stimulation of the higher nervous activity. M. V. Palladin and A. A. Rybina. *Doklady Akad. Nauk S.S.R.* 91, 903-5 (1953); cf. *C.A.* 46, 10431g.—The technique of labeled atoms was employed in the demonstration of the fact that pervitin and cardiazole produce a different reaction in the process of brain metabolism in respect to phosphates, particularly adenosinetriphosphate (ATP). Rabbits were given either of the 2 drugs (7-8 mg./kg., or 50-70 mg./kg., resp.) and the rapidly excised brain tissue was frozen in liquid air. When pervitin is used as the brain stimulant, within 1 hr. there is observed a decline of ATP content in the brain, after this its content rises to normal within 2 hrs., then continues to rise up to 4 hrs. reaching above normal levels. The inorg. phosphate shows a precisely reversed order of changes. When cardiazole was used as the stimulant, the brain content of ATP was supernormal in the 1st hr. then dropped and remained subnormal after 2 or even 4 hrs. The inorg. phosphate content gave a reverse order. If labeled phosphate was introduced simultaneously with the drugs (P^{32} -phosphate in unspecified form) the radioactivity of the brain ATP gave the following picture: with pervitin the radioactivity of brain ATP rises over the 1st 4 hrs.; with cardiazole the activity is subnormal without much change over the duration of expts. Thus, pervitin promotes the metabolic exchange in ATP and cardiazole does not.

G. M. Kosolpoff

RYBITNA, A. A.

Dissertation: "The Intensity of the Metabolism of Phosphorus Compounds in the Brain Under Various Functional Conditions." Cand Biol Sci, Kiev State U, Kiev, 1954.
(Referativnyy Zhurnal--Khimiya, Moscow, No 10, May 54)

SO: SUM 318, 23 Dec 1954

RYBINA, A.A. [Rybina, A.O.]; LAKHNO, Ye.V. [Lakhno, Iu.V.]

Distribution and reservation of thiamine and nicotinic acid
introduced into the organism. Ukr. biokhim. zhur. 33 no.1:46-56
'61. (MIRA 14:3)

1. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiyev.
(THIAMINE) (NICOTINIC ACID)

RYBINA, A. A., SHTUTMAN, TS. M., CHAGOVETS, B. V., and LAKHNO, YE. V.
(USSR)

"The Effect of Vitamin B₁, C and Nicotinic Acid Loading on the
Content of These Substances in the Tissues and on Certain Aspects
of Metabolism."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

RYBKINA, A.D., aspirant

Chemical prevention of babasiasis in cattle. Veterinariia 41 no.4:
51-53 Ap '64. (MIRA 17:8)

1. Vitebskiy veterinarnyy institut.

CA

Absorption of sulfapyridine by solid tissues of teeth.
I. M. Starobinskii and A. N. Rybina. *Somatologiya*
1948, No. 2, 29-30.—Dentine absorbs the drug from an aq.
paste more strongly than does the enamel, which takes up
but 0.01-0.03% by wt., while dentine may take up to
7.9% by wt. Decalcification results in a sharp decline
of absorption to 0.60-0.7%. G. M. Kosolapoff

POBEDINA, Valentina Mikhaylovna; VOROSHILOVA, Anastasiya Grigor'yevna;
RYBINA, Il'ga Ivanovna; KUZNETSOVA, Zoya Vasil'yevna; ALIZADE, K.A.,
prof., doktor geol.-mineral.nauk, red.; GONCHAROV, I.A., red.izd-va.

[Handbook on the microfauna of the Middle and Upper Miocene
deposits in Azerbaijan] Spravochnik po mikrofaune sredne- i
verkhnemetsenovykh otlozhenii Azerbaidzhana. Baku, Azerbaidzhans-
koe gos.izd-vo neft.i nauchno-tekhn.lit-ry, 1956. 188 p.
(MIRA 11:1)

(Azerbaijan--Paleontology)

ZHIVETIN, V.V., aspirant; RYBINA, K.A., tekhnolog

New formula for starch size. Tekst.prom. 25 no.11:45-46 N '65.
(MIRA 18:12)

1. Kostromskoy tekhnologicheskiy institut (for Zhivetin).
2. Tkatskaya fabrika Kostromskogo l'nokombinata imeni I.D. Zvorykina (for Rybina).

MARTYNOVA, M.I.; RYBINA, L.N.

Effectiveness of the use of prolonged-action insulin in diabetes mellitus in children. Pediatriia 42 no.8:14-19 Ag'63
(MIRA 17:4)

1. Iz kafedry detskikh bolezney (zav. - prof. M.M. Bubnova) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni Pirogova.

RYBINA, L.N.

Changes in the cardiovascular system in diabetes mellitus
in children. Vop. okh. mat. i det. 7 no.2:49-53 F '62.

(MIRA 15:3)

1. Iz kliniki detskikh bolezney lechebnogo fakul'teta (zav. -
prof. M.M. Bubnova) II Moskovskogo meditsinskogo instituta imeni
N.I. Pirogova (rektor - dotsent M.G. Sirotkina) na baze Detskoy
gorodskoy klinicheskoy bol'nitsy No.1 (glavnnyy vrach - zasluzhennyy
vrach RSFSR Ye.V. Prokhorovich).

(DIABETES)

(CARDIOVASCULAR SYSTEM)

RYBINA, L.N.

Rate of the pulse wave spread in children with diabetes mellitus.
Vop. okh. mat. i det. 6 no.8:20-25 Ag '61. (MIRA 15:1)

1. Iz kliniki detskikh bolezney lechebnogo fakul'teta (zav. - prof. M.M.Bubnova) II Moskovskogo meditsinskogo instituta (dir. - dotsent M.G.Sirotkina) na baze detskoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnnyy vrach - zasluzhennyy vrach RSFSR Ye.V.Prokhorovich).
(DIABETES) (PULSE)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3

POPOVA, N.M.; PLATONOV A.F.; ZASLAVSKAYA, L.V.; RYBINA, M.F.

Determining highly dispersed vanadium, molybdenum and titanium carbides.
Zav. lab. 23 no.3:269-272 '57. (MLRA 10:6)
(Carbides--Analysis)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410008-3"

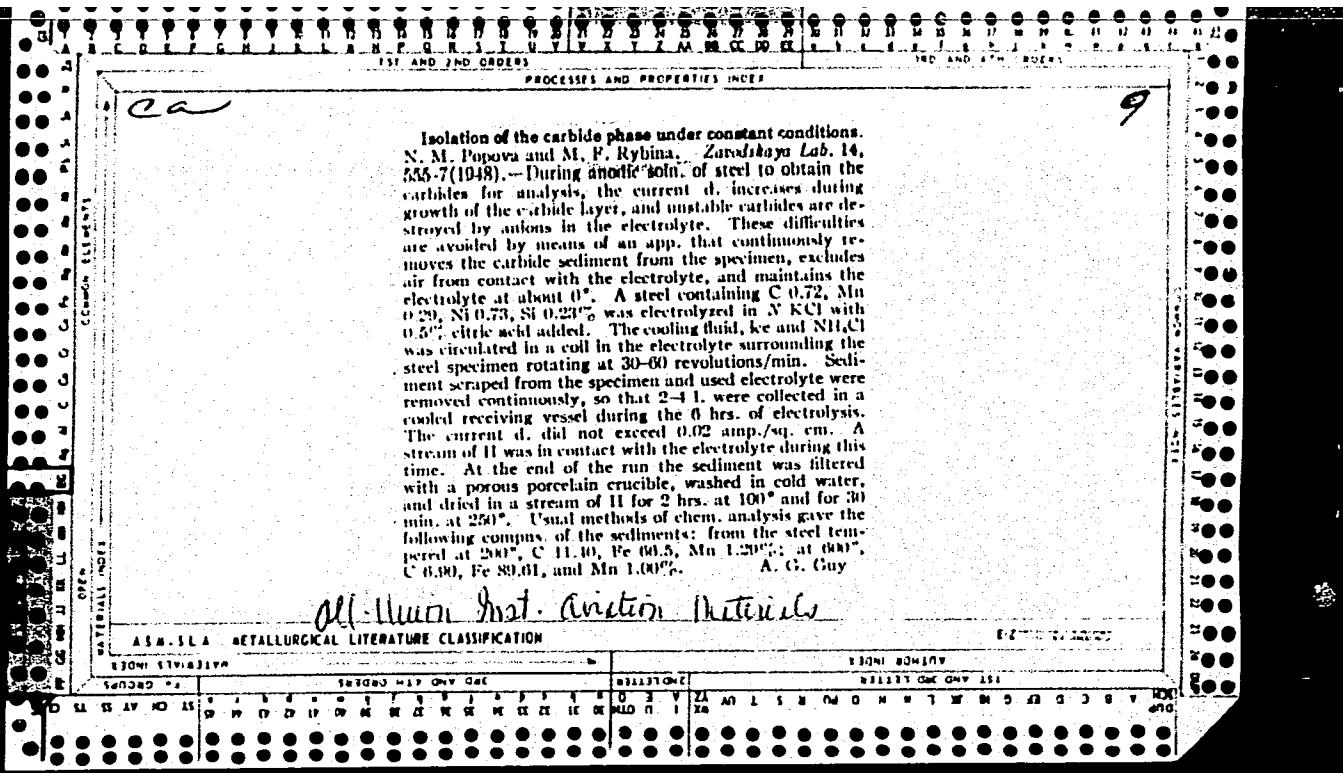
15

B

*238. Gravimetric Determination of the Carbide Phase in Carbon Steels. (In Russian.) N. M. Popova and M. F. Rybina. Zavodskaya Laboratoriya (Factory Laboratory), v. 13, Dec. 1947, p. 1421-1425.

Experimental investigation of the electrolytic method described showed that it results in complete separation of carbides from steels containing less than 1% in any structure resulting from heat treatment.

AMSLA METALLURGICAL LITERATURE CLASSIFICATION



RYBINA, M. F.

USSR/Metals - Steel Carbon, Determination

Mar 50

"Determination of Free and Combined Carbon in Steels," N. M. Iopova, M. F. Rybina,
3 pp

"Zavod Lab" Vol XVI, No 3

Develops method for determination of carbon in steels which do not contain chemically stable carbides. Bases method on decomposing glycerin suspensions of carbides with hydrochloric acid. Experiments demonstrated constancy of iron carbide composition in tempered and annealed steels; this factor offers possibility of calculating combined carbon by amount of iron combined in carbides.

PA 159T64

RYBINA, M. F.

"Secondary Hardness in Steels alloyed with Vanadium, Molybdenum, or Titanium, "

L. V. Zaslavskaya, S. T. Kishkin, N. F. Lashko, A. F. Platonova, N. M. Popova and
M. F. Rybina, Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, v. 20, No. 6, June 1956
p. 684-688.

Relation of hardness and amount of V (in high-dispersion VC) to tempering
temperature and composition of steel. Same relation for Ti and for Mo.

ZASIAVSKAYA, L.V.; KISHKIN, S.T.; LASHKO, N.V.; PLATONOVA, A.F.; POPOVA, N.M.
RYBINA, M.F.

Secondary hardness in steels with vanadium, molybdenum or titanium
alloying constituents. Izv.AN SSSR.Ser.fiz. 20 no.6:684-688 Je '56.
(Steel alloys) (MIRA 10:1)

Rybina, M. F.

USSR/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61877

Author: Popova, N. M., Rybina, M. F.

Institution: None

Title: Separation of Cementite from Titanium Carbide

Original

Periodical: Zavod. laboratoriya, 1956, 22, No 3, 274-275

Abstract: The sample, after electrolysis is washed, the precipitate of carbides is transferred into a beaker with 15 ml alcohol, decanted, held for 10-15 hours at 20° in a mixture of 25 ml 30% H₂O₂ and 5 ml 1% solution NaF, filtered and precipitate washed with 200 ml hot water. Thereafter Fe and Ti are determined in the precipitate while the solution is evaporated with H₂SO₄ and Ti is determined. The results are recomputed on the basis of the weighed sample of steel. The proposed procedure is applicable to steels which have been annealed for one hour and containing 0.1-0.5% C, 0.3-0.4% Ti. By varying the temperature of annealing the kinetics of carbide formation and composition of carbides have been ascertained.

Card 1/1

Rybina, M.F.

The determination of highly dispersed vanadium, molybdenum, and titanium carbides. N. M. Popova, A. F. Plotonova, L. V. Zaslavskaya, and M. F. Rybina. *Zarodskaya Lab.*, 23, 205-72 (1957). In the usual method of sepn. of carbides from steel turnings the sample is boiled with HCl, in which the highly dispersed V, Mo, and Ti carbides are sol. In the proposed methods the steel sample (after heating to promote the fine carbide dispersion) was dissolved anodically in N KCl + 0.5% citric acid at 0° and with a c.d. of 0.02 amp./sq. cm. The residue was boiled in 0.6% HCl for a complete sepn. of cementite. When the residue was boiled in alc.-H₂O soln. cementite remained with the residue, but special (highly dispersed) carbides were dissolved and recovered in the filtrate. The V detn. in the residue and in the filtrate permitted the separate detn. of the 2 kinds of carbides, which was desirable because of the role attributed to the finely dispersed carbides in the secondary hardness phenomena for which no exptl. verifications were available. The detn. of the dispersed TiC and MoC in steels annealed at 500-760°, and a comparison of their contents with the hardness detn. showed that a relation between the two could be observed. Such an agreement was not observed in steel contg. 0.2-0.4% C and 1.7% Mo.

W. M. Steneck

M-T

KOLPAKOVA, T.A.; GOLIYENBIYEVSKAYA, Z.I.; SHEVTSOVA, N.I.; RYBINA, M.I.;
NIKITINA, N.N.; RYBAKOVA, L.F.; SHIPSHINA, N.D.; KORN, A.N.; KO-
ROVKIN, B.F.; KOSYAKOV, K.S.; STEPNAIA, A.A.

Suggestions made at the September 29, 1963, conference of "La-
boratornoe delo" readers, members of the Leningrad Society of Phy-
sicians and Laboratorians. Lab. delo-10 no.4:256 '64. (MIRA 17:5)

1. Predsedatel' pravleniya Leningradskogo obshchestva vrachey-la-
borantov (for Kolpakova). 2. Chleny pravleniya Leningradskogo ob-
shchestva vrachey-laborantov (for all except Kolpakova).